



**SLOVENSKI STANDARD**  
**oSIST prEN 16290:2011**  
**01-julij-2011**

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**Steklena embalaža - Grla z navojem za steklenice pod tlakom - Grla MCA 7,5 R**

Glass packaging - Screw finishes for pressure capsules - MCA 7,5 R finish

Verpackungen aus Glas - Schraubmundstücke für Flaschen mit Innendruck - MCA 7,5 R-Mundstück

Emballage en verre - Bagues à vis pour capsules à pression - Bague MCA 7,5 R

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**Ta slovenski standard je istoveten z: prEN 16290**

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**ICS:**

55.100      Steklenice. Lonci. Kozarci      Bottles. Pots. Jars

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**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 16290**

May 2011

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ICS 55.100

English Version

## Glass packaging - Screw finishes for pressure capsules - MCA 7,5 R finish

Emballage en verre - Bagues à vis pour capsules à  
pression - Bague MCA 7,5 R

Verpackungen aus Glas - Schraubmundstücke für  
Flaschen mit Innendruck - MCA 7,5 R-Mundstück

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 261.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This document (prEN 16290:2011) has been prepared by Technical Committee CEN/TC 261 “Packaging”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

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## Introduction

This document is based on CE.T.I.E. (International Technical Centre for Bottling and related Packaging) data sheet GME 32-06 [1].

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

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## 1 Scope

This document specifies the dimensions of the 18 millimetres screw finish for glass containers designated MCA 7.5 R finish.

## 2 Terms and definitions

For the purposes of this European Standard, the following term and definition applies.

### 2.1

#### MCA

finish designed for the closure of pressurized or vacuum liquids with a tamper-evident closure (metal or plastic)

## 3 Dimensions

The design and dimensions of the finish shall be as shown in Table 1 and Figures 1, 2, 3 and 4.

Table 1

Pitch	$\beta$	TPI - Threads per inch (25,4 mm)	$\varnothing$ cutter
3,387 mm	2° 22'	7,5	12,5 mm

$\beta$  = Helix angle or angle of fixture to cutter

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NOTE 1 The  $\tan \beta$  of helix angle for cutter is calculated via the following formula.

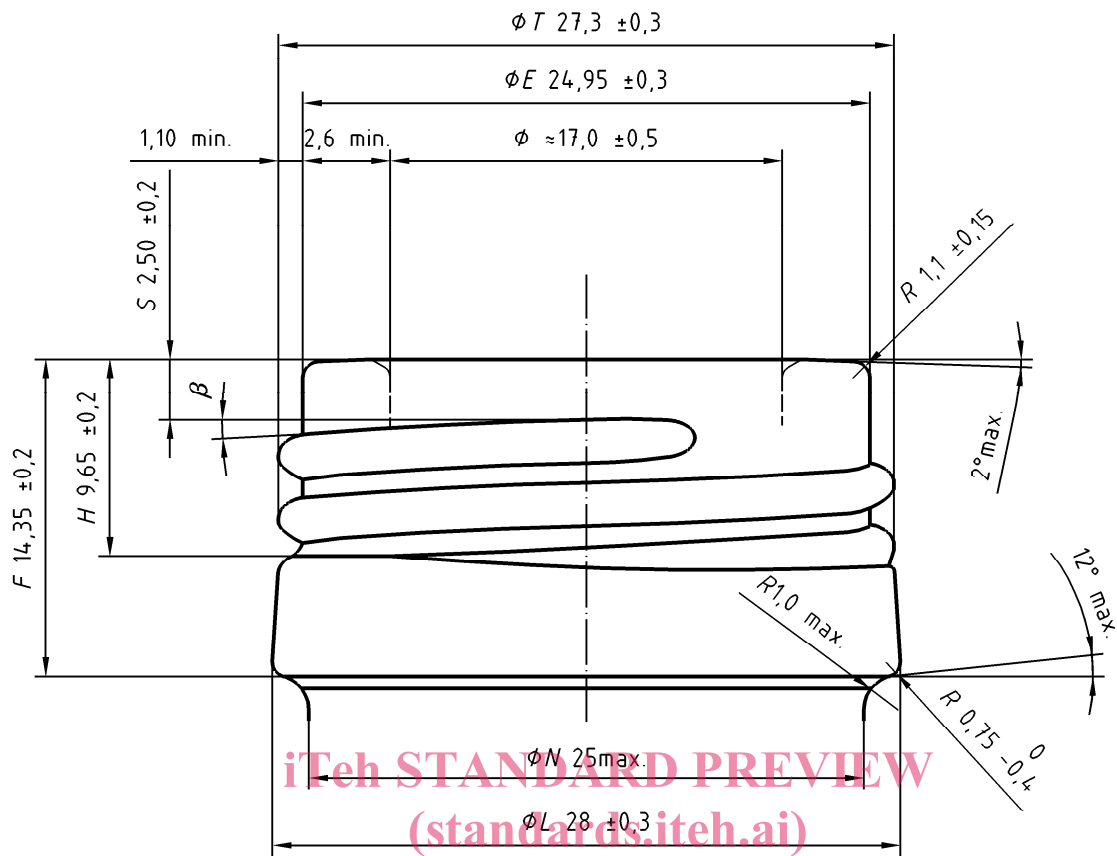
$$\tan \beta = \frac{\text{pitch}}{\frac{\pi (\text{nominal T} + \text{nominal E})}{2}}$$

NOTE 2 The average of the maximum and minimum of « L » diameter should be as close as possible to « L » nominal.

NOTE 3 The limit of the mean diameters should be within the tolerance  $\pm 0,2$  mm.

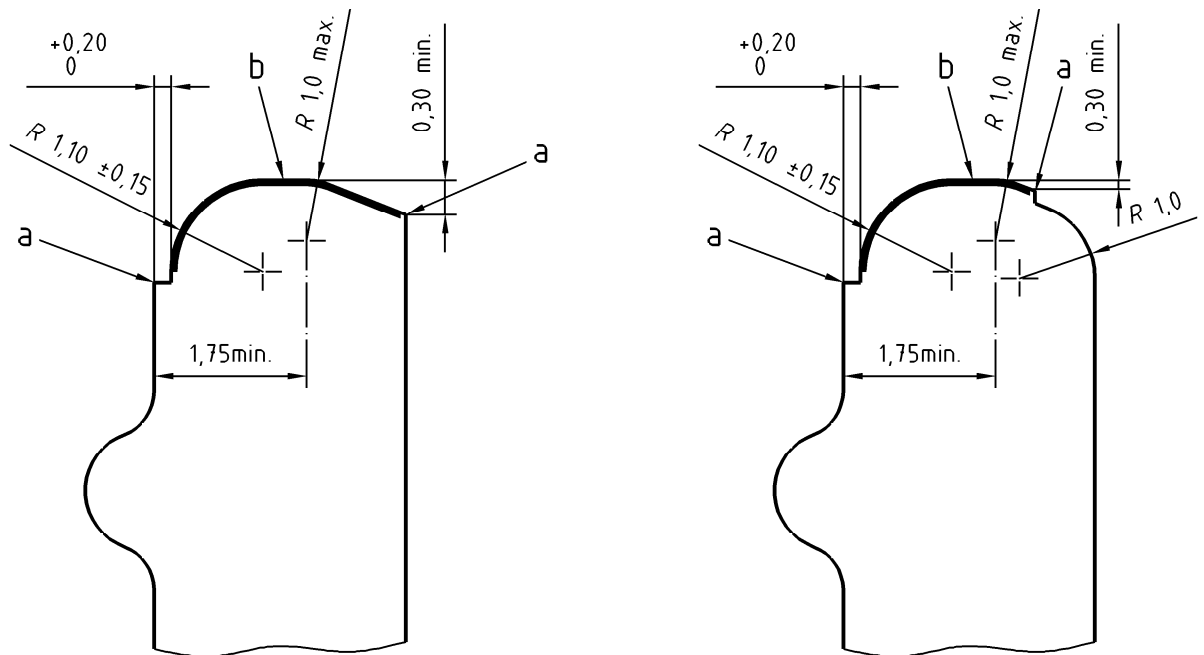
$$(T-E-L) = \frac{\varnothing \text{ max} + \varnothing \text{ min}}{2}$$

NOTE 4 Optional: Depressed thread at mould parting line. (Document in preparation).



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**Figure 1**





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**Key**

- a) Mould parting line <https://standards.iteh.ai/catalog/standards/sist/6d668a08-52cf-4f85-9b38-8a3bc7fb2c5a/osist-pren-16290-2011>  
 b) Sealing surface <https://standards.iteh.ai/catalog/standards/sist/6d668a08-52cf-4f85-9b38-8a3bc7fb2c5a/osist-pren-16290-2011>

**Figure 2 — Possible alternative constructions of the bore entrance to suit glass manufacturer**

**NOTE** The sealing surface should be smooth and free of any defects and flash.

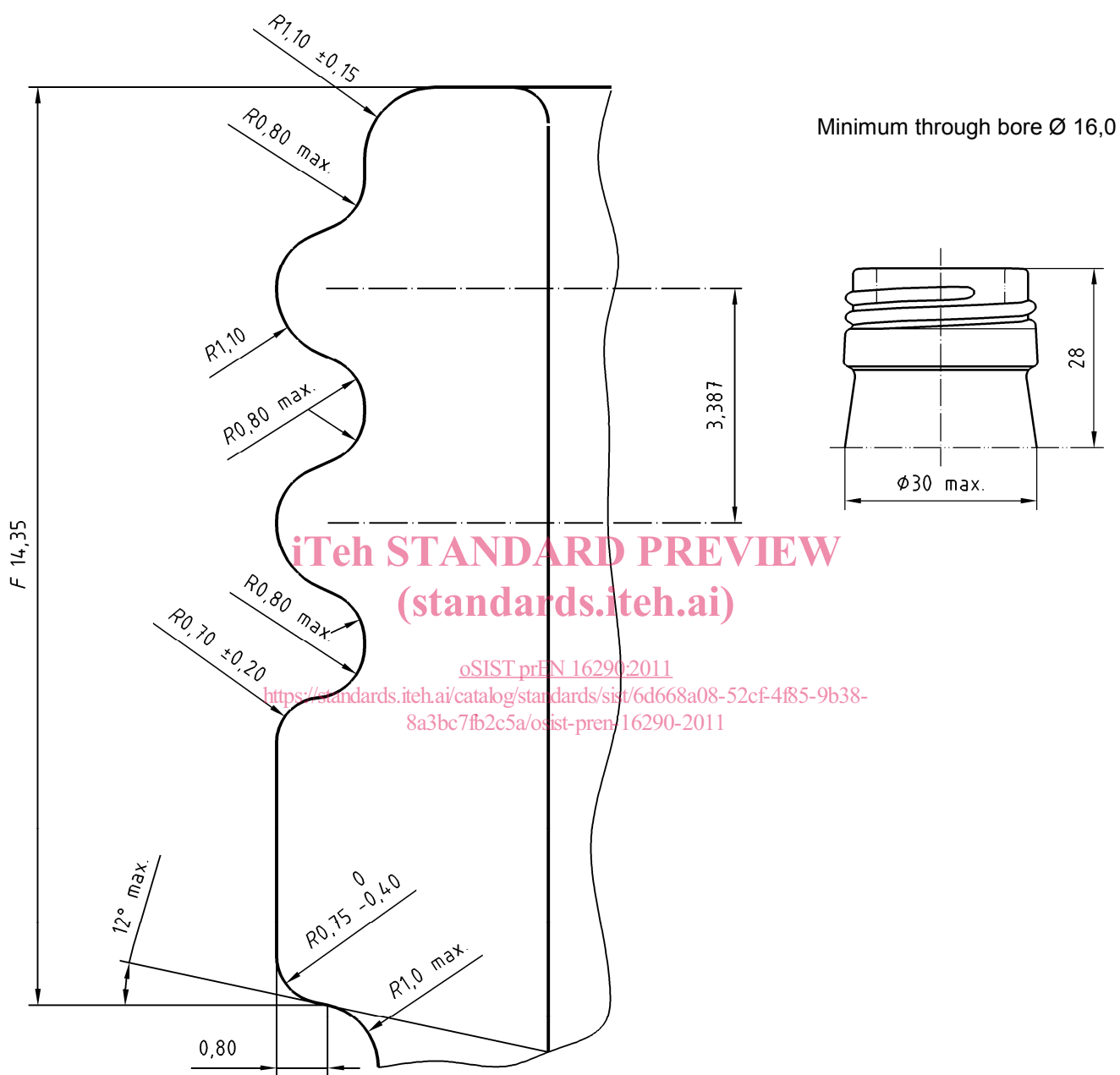


Figure 3 — Detail of the profile